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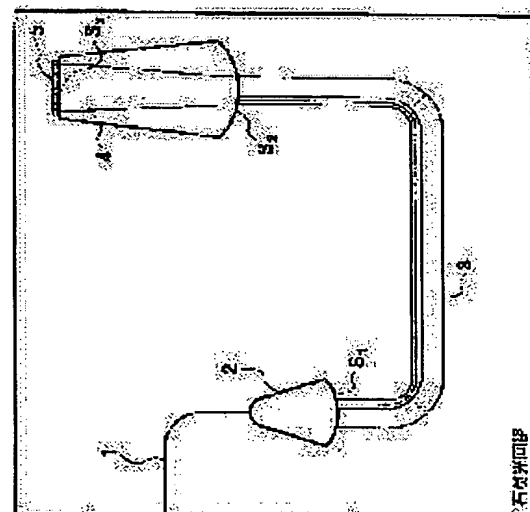
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## (54) OPTICAL SIGNAL PROCESSOR AND OPTICAL SIGNAL PROCESSING METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an optical signal processor and an optical signal processing method by which the generation of light pulses of 1-10 ps, waveform shaping, waveform measuring, waveform recoding and correlative processing or the like are allowed.

SOLUTION: The device is basically composed of an optical waveguide, a first means which equally distributes output light from the optical waveguide and an assembly of the optical waveguide the optical path length of which changes at a fixed interval, and the device is provided with a waveguide array which spectrally diffracted output light, a second means which image-forms light output from the waveguide array and a mirror which receives an incidence of light image formed by the second means and reflects incident light.



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